Shawn A Christensen

List of Publications by Year
in descending order

44 papers	2,514 citations	236925 25 h-index	254184 43 g-index
46 all docs	46 docs citations	46 times ranked	2928 citing authors

#	Article	IF	Citations
1	Biosynthesis, elicitation and roles of monocot terpenoid phytoalexins. Plant Journal, 2014, 79, 659-678.	5.7	233
2	Disruption of <i>OPR7</i> and <i>OPR8</i> Reveals the Versatile Functions of Jasmonic Acid in Maize Development and Defense. Plant Cell, 2012, 24, 1420-1436.	6.6	222
3	The maize lipoxygenase, <i>Zm<scp>LOX</scp>10</i>, mediates green leaf volatile, jasmonate and herbivoreâ€induced plant volatile production for defense against insect attack. Plant Journal, 2013, 74, 59-73.	5.7	217
4	The lipid language of plantâ€“fungal interactions. Fungal Genetics and Biology, 2011, 48, 4-14.	2.1	182
5	Accumulation of terpenoid phytoalexins in maize roots is associated with drought tolerance. Plant, Cell and Environment, 2015, 38, 2195-2207.	5.7	137
6	Maize death acids, 9-lipoxygenaseâ€“derived cyclopente(a)nones, display activity as cytotoxic phytoalexins and transcriptional mediators. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11407-11412.	7.1	128
7	Effects of elevated [<scp><scp>CO₂</scp></scp>] on maize defence against mycotoxigenic <i><scp>F</scp>usarium verticillioides</i>. Plant, Cell and Environment, 2014, 37, 2691-2706.	5.7	107
8	Biosynthesis and function of terpenoid defense compounds in maize (Zea mays). Planta, 2019, 249, 21-30.	3.2	103
9	Rapid defense responses in maize leaves induced by Spodoptera exigua caterpillar feeding. Journal of Experimental Botany, 2017, 68, 4709-4723.	4.8	98
10	The effects of climate change associated abiotic stresses on maize phytochemical defenses. Phytochemistry Reviews, 2018, 17, 37-49.	6.5	96
11	The Novel Monocot-Specific 9-Lipoxygenase ZmLOX12 Is Required to Mount an Effective Jasmonate-Mediated Defense Against <i>Fusarium verticillioides</i> in Maize. Molecular Plant-Microbe Interactions, 2014, 27, 1263-1276.	2.6	89
12	Two closely related members of <i><scp>A</scp>rabidopsis</i> 13â€lipoxygenases (13â€<scp>LOXs</scp>), <scp>LOX3</scp> and <scp>LOX4</scp>, reveal distinct functions in response to plantâ€parasitic nematode infection. Molecular Plant Pathology, 2014, 15, 319-332.	4.2	64
13	Multiple genes recruited from hormone pathways partition maize diterpenoid defences. Nature Plants, 2019, 5, 1043-1056.	9.3	60
14	MSD1 regulates pedicellate spikelet fertility in sorghum through the jasmonic acid pathway. Nature Communications, 2018, 9, 822.	12.8	56
15	Genetic elucidation of interconnected antibiotic pathways mediating maize innate immunity. Nature Plants, 2020, 6, 1375-1388.	9.3	52
16	Systems genetics reveals a transcriptional network associated with susceptibility in the maizeâ€“grey leaf spot pathosystem. Plant Journal, 2017, 89, 746-763.	5.7	49
17	Plant Defense Chemicals against Insect Pests. Agronomy, 2020, 10, 1156.	3.0	47
18	Genetic mapping shows intraspecific variation and transgressive segregation for caterpillarâ€induced aphid resistance in maize. Molecular Ecology, 2015, 24, 5739-5750.	3.9	45

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19	RNA-Seq analysis of resistant and susceptible sub-tropical maize lines reveals a role for kauralexins in resistance to grey leaf spot disease, caused by Cercospora zeina. BMC Plant Biology, 2017, 17, 197.	3.6	43
20	Green leaf volatiles and jasmonic acid enhance susceptibility to anthracnose diseases caused by <i>Colletotrichum graminicola</i> in maize. Molecular Plant Pathology, 2020, 21, 702-715.	4.2	43
21	Commercial hybrids and mutant genotypes reveal complex protective roles for inducible terpenoid defenses in maize. Journal of Experimental Botany, 2018, 69, 1693-1705.	4.8	42
22	Interactive Effects of Elevated [CO2] and Drought on the Maize Phytochemical Defense Response against Mycotoxigenic Fusarium verticillioides. PLoS ONE, 2016, 11, e0159270.	2.5	39
23	Interactions Among Plants, Insects, and Microbes: Elucidation of Inter-Organismal Chemical Communications in Agricultural Ecology. Journal of Agricultural and Food Chemistry, 2018, 66, 6663-6674.	5.2	37
24	Elevated carbon dioxide reduces emission of herbivoreâ€induced volatiles in <scp><i>Zea mays</i></scp>. Plant, Cell and Environment, 2017, 40, 1725-1734.	5.7	31
25	Fertility of Pedicellate Spikelets in Sorghum Is Controlled by a Jasmonic Acid Regulatory Module. International Journal of Molecular Sciences, 2019, 20, 4951.	4.1	31
26	Herbivore-derived fatty-acid amides elicit reactive oxygen species burst in plants. Journal of Experimental Botany, 2018, 69, 1235-1245.	4.8	27
27	Quantification of Fungal Colonization, Sporogenesis, and Production of Mycotoxins Using Kernel Bioassays. Journal of Visualized Experiments, 2012, , .	0.3	24
28	Fungal and herbivore elicitation of the novel maize sesquiterpenoid, zealexin A4, is attenuated by elevated CO2. Planta, 2018, 247, 863-873.	3.2	24
29	MaizeÂ<i>w3</i>Âdisrupts <i>homogentisate solanesyl transferase</i>Â(<i>ZmHst</i>) and reveals a plastoquinoneâ€9 independent path for phytoene desaturation and tocopherol accumulation in kernels. Plant Journal, 2018, 93, 799-813.	5.7	24
30	Sorghum MSD3 Encodes an Ï‰-3 Fatty Acid Desaturase that Increases Grain Number by Reducing Jasmonic Acid Levels. International Journal of Molecular Sciences, 2019, 20, 5359.	4.1	24
31	Contrasting insect attraction and herbivore-induced plant volatile production in maize. Planta, 2018, 248, 105-116.	3.2	21
32	Fighting on two fronts: Elevated insect resistance in flooded maize. Plant, Cell and Environment, 2020, 43, 223-234.	5.7	18
33	Analysis of the transcriptomic, metabolomic, and gene regulatory responses to <i>Puccinia sorghi</i> in maize. Molecular Plant Pathology, 2021, 22, 465-479.	4.2	18
34	A maize death acid, 10-oxo-11-phytoenoic acid, is the predominant cyclopentenone signal present during multiple stress and developmental conditions. Plant Signaling and Behavior, 2016, 11, e1120395.	2.4	16
35	<i>Brachypodium</i> Phenylalanine Ammonia Lyase (PAL) Promotes Antiviral Defenses against <i>Panicum mosaic virus</i> and Its Satellites. MBio, 2021, 12, .	4.1	16
36	Metabolomics by UHPLC-HRMS reveals the impact of heat stress on pathogen-elicited immunity in maize. Metabolomics, 2021, 17, 6.	3.0	14

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37	A novel, conditional, lesion mimic phenotype in cotton cotyledons due to the expression of an endochitinase gene from Trichoderma virens. Plant Science, 2012, 183, 86-95.	3.6	8
38	Setaria viridis as a model for translational genetic studies of jasmonic acid-related insect defenses in Zea mays. Plant Science, 2020, 291, 110329.	3.6	7
39	Wrap-and-plant technology to manage sustainably potato cyst nematodes in East Africa. Nature Sustainability, 0, , .	23.7	5
40	RNAi-induced knockdown of white gene in the southern green stink bug (Nezara viridula L.). Scientific Reports, 2022, 12, .	3.3	5
41	Detecting the Conspecific: Herbivory-Induced Olfactory Cues in the Fall Armyworm (Lepidoptera:) Tj ETQq1 1 0.784314 rgBT /Overlock	2.9	4
42	<i>Fusarium verticillioides</i> Induces Maize-Derived Ethylene to Promote Virulence by Engaging Fungal G-Protein Signaling. Molecular Plant-Microbe Interactions, 2021, 34, 1157-1166.	2.6	3
43	Seed Treatment with Live or Dead <i><scp>F</scp>usarium verticillioides</i> Equivalently Reduces the Severity of Subsequent Stalk Rot. Journal of Phytopathology, 2014, 162, 201-204.	1.0	2
44	The 13-lipoxygenase MSD2 and the Ï‰-3 fatty acid desaturase MSD3 impact Spodoptera frugiperda resistance in Sorghum. Planta, 2020, 252, 62.	3.2	2